## **REMARKS**

Applicants thank the Examiner and his supervisor for the helpful discussion and courtesy shown during the interview held at the U.S. PTO on July 6, 2006.

Claims 1-20 are all the claims pending in the application; claims 7, 8, 11 and 13 have been withdrawn from consideration, claims 1-6, 9, 10, 14-20 are rejected, and claim 12 is objected to.

While the Examiner did not include claims 18 and 20 in the summary of the claims on the Office Action Summary sheet, as these claims depend from rejected claims 2 and 3, it appears that the Examiner intended to include claims 18 and 20 among the rejected claims.

Upon entry of this amendment, claims 1-20 will be canceled, claims 21-37 will be added, and claims 21-37 will be pending.

Support for new claims 21-37 may be found in the specification as follows.

Claim 21 - the method of detecting variations in at least two positions of a glaucomarelated gene is described at page 4, line 5-8; the glaucoma-related gene is described as the MYOC gene of SEQ ID NO:1 at page 4, lines 9-12; the specific variations in SEQ ID NO:1 that may be detected are described at page 8, lines 2-9.

Claim 22 - the specific variations at positions 4037 and 4346 are described at page 22, lines 3-5. See also page 4, lines 15-23, and at page 8, lines 2-9.

Claims 23-24 - the specific variations at positions 194, 199, 324, 1051, 1084, 1627, 1685, 1756, 1853, 2830 and 3371 (in conjunctions with positions 4037 and 4346 of claim 22) are described at page 8, line 23, through page 9, line 2.

Claim 25 - the specific variations at positions 194, 1084 and 1627 are described at page 22, lines 14-19. See also page 4, lines 15-23, and at page 8, lines 2-9.

Claims 26-28 - the specific variations at positions 4037 and 4346 are described at page 22, lines 3-5. See also page 4, lines 15-23, and at page 8, lines 2-9.

Claim 29 - the selection of variations as between substitutions, insertions and deletions is described at page 4, lines 13-14, and at page 8, lines 2-5.

Claim 30 - the specific substitution is described at page 8, lines 16-17.

Claim 31 - the specific substitution is described at page 8, lines 17-18.

Claims 32-33 - the specific substitutions are described at page 8, lines 10-18.

Claim 34 - the detection of a third variation is described at page 10, lines 10-14.

Claim 35 - the types of glaucoma are described at page 5, lines 19-20.

Claim 36 - the use of a hybridizing oligonucleotide is described at page 5, lines 21-24.

Claim 37 - the manner in which the detecting is performed is described at page 5, line 25 through page 6, line 18; page 11, lines 5-11; page 12, line 24 through page 14, line 9.

The location in SEQ ID NO:1 to which the primers recited in claim 37 correspond is shown in the Appendix filed herewith.

No new matter has been added. Entry of the Amendment is respectfully requested.

#### I. Formal Matters

As the Examiner has not yet acknowledged receipt of the certified copy of the priority document or Applicants' claim to foreign priority, Applicants respectfully request the Examiner to acknowledge receipt of the document and Applicants' claim in the next paper issued by the U.S. PTO.

### II. Claim Objections

At page 3 of the Office Action, claim 12 is objected to for improperly depending from two different claims.

The instant Amendment includes the cancellation of claim 12, thus making this objection moot. None of the new claims included in the instant Amendment include an improper dependency of the type noted by the Examiner in claim 12.

In view of the cancellation of claim 12, Applicants respectfully request reconsideration and withdrawal of this objection.

### III. Claim Rejections - 35 U.S.C. §101

At page 3 of the Office Action, claims 1-6, 9, 14-17 and 19 are rejected as being drawn to non-statutory subject matter under 35 U.S.C. §101.

The Examiner states that because the cited claims do not recite either a physical transformation of matter or a practical application, the claims are not directed to statutory subject matter.

The instant Amendment includes the cancellation of each of the rejected claims, thus making this rejection moot. Each of new claims 21-37 recites a method for determining a risk of glaucoma in a subject, and are thus directed to statutory subject matter.

In view of the cancellation of claim 1-6, 9, 14-17 and 19, Applicants respectfully request reconsideration and withdrawal of this rejection.

# IV. Claim Rejections - 35 U.S.C. §102

A. At page 4 of the Office Action, claims 1, 4, 9 and 10 are rejected under 35 U.S.C. §102(e) as being anticipated by Sarfarazi et al. (US 2004/0191798, Dec. 24, 2001).

Briefly, the Examiner states that Sarfarazi teaches methods of detection, prognosis and diagnosis of the presence or absence of optineurin-associated glaucoma or of an optineurin-associated increased risk of glaucoma through the detection of sequence alterations in the optineurin gene.

The instant Amendment includes the cancellation of each of the rejected claims, thus making this rejection moot. In view of the cancellation of claim 1, 4, 9 and 10, Applicants respectfully request reconsideration and withdrawal of this rejection.

Applicants note that each of new claims 21-37 recites a method for determining a risk of glaucoma in a subject by detecting variations in the polynucleotide sequence set forth in SEQ ID NO:1. The polynucleotide of SEQ ID NO:1 encodes the myocilin gene. In contrast, Sarfarazi teaches methods that utilize the gene encoding optineurin (see, e.g., paragraph [0005]), a

completely different gene. As such, Sarfarazi does not teach each and every element of new claims 21-37, and should not be considered to anticipate new claims 21-37.

**B.** At page 5 of the Office Action, claims 1, 2, 4, 9 and 10 are rejected under 35 U.S.C. §102(e) as being anticipated by Stone et al. (US Patent No. 6,956,103).

Briefly, the Examiner states that Stone teaches methods for detecting mutations in genes that correlate with the existence or predisposition to the development of glaucoma, including detecting the presence or absence of genetic alternations of genes encoding myocilin.

The instant Amendment includes the cancellation of each of the rejected claims, thus making this rejection moot. In view of the cancellation of claim 1, 4, 9 and 10, Applicants respectfully request reconsideration and withdrawal of this rejection.

Each of new claims 21-37 recites a method for determining a risk of glaucoma in a subject by detecting variations in the polynucleotide sequence set forth in SEQ ID NO:1. The locations of the variations are recited in the new claims. Stone does not teach a method for determining a risk of glaucoma by detecting any of the variations recited in new claims 21-37.

Applicants enclosed an Appendix herewith that shows the location of the variations recited in new claims 21-37, and those that are disclosed in Stone. Each of the variations recited in new claims 21-37 is marked with the letter "A". Each of the variations of Stone is marked with the letter "D". Stone does not teach any of the variations recited in new claims 21-37. As such, Stone does not teach and every element of new claims 21-37, and should not be considered to anticipate new claims 21-37.

#### V. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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washington office 23373

CUSTOMER NUMBER

Date: August 17, 2006

Sequence 1: US2005/0170353(SEQ ID NO:1)

Sequence 2: USP6956103(SEQ ID NO:1)



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/0/509, 595

Alignment

#### Note:

- "A" indicates the positions of a variation defined in the amended claims.
- "B" indicates the starting or ending point of the sequence overlapping.
- "C" indicates the starting or ending point of Exon 1.
- "D" indicates the location of the frame encoding the amino acid where an amino acid mutation could be detected. Mutations are disclosed in figure 3 of US 6956103 (Stone et al). The numbers in parentheses indicate the locations in SEQ ID NO: 1 of US 6956103.
- "\*" means that the nucleotides of the sequences are the same.
- "-" means that there is no nucleotide to be aligned.

US2005/0170353 USP6956103	SEQ ID NO: 2  GCTCCACAGGAAGTCTCCCCACTCTAGACTTCTGCATCACGATGTTACAGCCAGAAGCTC
US2005/0170353 USP6956103	CGTGAGGGTGAGGGTCTGTGTCTTACACCTACCTGTATGCTCTACACCTGAGCTCACTGC
US2005/0170353 USP6956103	AACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGTCTCAGCCTCCCGCGTAGCTGGGACT
US2005/0170353 USP6956103	194 199  A A  ACAGGCGCACGCCCGGCTATTTGTATTGTTAGTAGAGATGGGGTTTCACCATATTAG
US2005/0170353 USP6956103	CCCGGCTGGTCTTGAACTCCTGACCTCAGGTGATCCACCCAC
US2005/0170353 USP6956103	A 324 TGGGATTACAGGCATGAGTCACCGCCCGCCCAAGGGTCAGTGTTTAATAAGGAATAAC
US2005/0170353 USP6956103	SEQ_ID_NO: 4 TTGAATGGTTTACTAAACCAACAGGGAAACAGACAAAAGCTGTGATAATTTCAGGGATTC
US2005/0170353 USP6956103	SEQ ID NO: 27 TTGGGATGGGGAATGGTGCCATGAGCCACTGGTCCTCATCA
US2005/0170353 USP6956103	CTTTCTTCCCTCATCCTCATTTTCAGGCTAAGTTACCATTTTATTCACCATGCTTTTGTG
US2005/0170353 USP6956103	GTAAGCCTCCACATCGTTACTGAAATAAGAGTATACATAAACTAGTTCCATTTGGGGCCA

US2005/0170353 USP6956103	TCTGTGTGTGTATAGGGGAGGGGGCATACCCCAGAGACTCCTTGAAGCCCCCGGCAG
US2005/0170353 USP6956103	AGGTTTCCTCTCCAGCTGGGGGAGCCCTGCAAGCACCCGGGGTCCTGGGTGTCCTGAGCA
US2005/0170353 USP6956103	SEQ ID NO: 5 ACCTGCCAGCCCGTGCCACTGGTTGTTTTGTTATCACTCTCTAGGGACCTGTTGCTTTCT
US2005/0170353 USP6956103	SEQ ID NO: 26 ATTTCTGTGTGACTCGTTCATTCATCCAGGCATTCATTGACAATTTATTGAGTACTTATA
US2005/0170353 USP6956103	TCTGCCAGACACCAGAGACAAAATGGTGAGCAAAGCAGTCACTGCCCTACCTTCGTGGAG
US2005/0170353 USP6956103	GTGACAGTTTCTCATGGAAGACGTGCAGAAGAAAATTAATAGCCAGCC
US2005/0170353 USP6956103	GTGCTGAAAGAAAGGAAATAAACACCATCTTGAAGAATTGTGCGCAGCATCCCTTAACAA
	1051 <b>A</b>
US2005/0170353 USP6956103	GGCCACCTCCCTAGCGCCCCTGCTGCCTCCATCGCTGCCCGGAGGCCCCCAAGCCCGAGT
	1084
US2005/0170353 USP6956103	SEQ ID NO: 6 CTTCCAAGCCTCCTCCATCAGTCACAGCGCTGCAGCTGCCTCCCTC
US2005/0170353 USP6956103	SEQ ID NO: 25  AATCGTCCTGGTGCATCTGGAGACTCCTTGGCTCCAGAAAGGAAATGG
US2005/0170353 USP6956103	AGAGGGAAACTAGTCTAACGGAGAATCTGGAGGGACAGTGTTTCCTCAGAGGGAAAGGG
US2005/0170353 USP6956103	GCCTCCACGTCCAGGAGATTCCAGGAGGTGGGGACTGCAGGGAGTGGGGACGCTGGGGC
US2005/0170353 USP6956103	TGAGCGGGTGCTGAAAGGCAGGAAGGTGAAAAGGGCAAGGCTGAAGCTGCCCAGATGTTC
US2005/0170353 USP6956103	AGTGTTGTTCACGGGGCTGGGAGTTTTCCGTTGCTTCCTGTGAGCCTTTTTATCTTTTCT
US2005/0170353 USP6956103	SEQ ID NO: 7 CTGCTTGGAGGAGAAGAAGTCTATTTCATGAAGGGATGCAGTTTCATAAAGTCAGCTGTT

US2005/0170353	SEQ ID NO: 24 AAAATTCCAGGGTGTGCATGGGTTTTCCTTCACGAAGGCCTTTATTTA
USP6956103	
US2005/0170353 USP6956103	GAAGCGAGCTCATTTCCTAGGCCGTTAATTCACGGAAGAAGTGACTGGAGTCTTTTCTTT
	1627 <b>A</b>
US2005/0170353 USP6956103	CATGTCTTCTGGGCAACTACTCAGCCCTGTGGTGGACTTGGCTATGCAAGACGGTCGAA
	1685 <b>A</b>
US2005/0170353 USP6956103	AACCUTGGAATCAGGAGACTCGGTTTTCTTTCTGGTTCGCCATTGGTTGG
	1756 <b>A</b> SEO ID NO. 8
US2005/0170353 USP6956103	A SEQ ID NO: 8 CGTGGGCAAGTGTCTCTCCCTGGGCCATAGTCTTCTCTGCTATAAAGACCCTTGCA
	1853 SEQ ID NO: 8
US2005/0170353 USP6956103	GCTCTCGTGTTCTGTGAACACTTCCCTGTGATTCTCTGTGAGGGGGGATGTTGAGAGGGG
US2005/0170353 USP6956103	AAGGAGGCAGAGCTGGAGCCACAGGGGAGGTGGAGGGGGACAGGAAGGCAGG
US2005/0170353 USP6956103	SEQ ID NO: 23 CAGAAGCTGGGTGCTCCATCAGTCCTCACTGATCACGTCAGACTCCAGGACCGAGAGCCA
US2005/0170353 USP6956103	CAATGCTTCAGGAAAGCTCAATGAACCCAACAGCCACATTTTCCTTCC
US2005/0170353 USP6956103	AATGGCATTTGCCAATAACCAAAAAGAATGCAGAGACTAACTGGTGGTAGCTTTTGCCTG
US2005/0170353 USP6956103	GCATTCAAAAACTGGGCCAGAGCAAGTGGAAAATGCCAGAGATTGTTAAACTTTTCACCC
US2005/0170353 USP6956103	SEQ ID NO: 9  TGACCAGCACCCCACGCAGCTCAGCAGTGACTGCTGACAGCACGGAGTGACCTGCAGCGC
US2005/0170353 USP6956103	SEQ ID NO: 22  AGGGGAGAGAAAAAGAGAGGGATAGTGTATGAGCAAGAAAGA
US2005/0170353 USP6956103	GGCAGTGGGAATTGACCACAGGGATTATAGTCCACGTGATCCTGGGTTCTAGGAGGCAGG GGCAGTGGGAATTGACCACAGGGATTATAGTCCACGTGATCCTGGGTTCTAGGAGGCAGG *****************************

	14gc 1 01 0
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US2005/0170353 USP6956103	TATATTTTTCCTTTACAAGCTGAGTAATTCTGAGCAAGTCACAAGGTAGTAACTGAGGCT TATATTTTTCCTTTACAAGCTGAGTAATTCTGAGCAAGTCACAAGGTAGTAACTGAGGCT ***********************************
US2005/0170353 USP6956103	GTAAGATTACTTAGTTTCTCCTTATTAGGAACTCTTTTTCTCTGTGGAGTTAGCAGCACA GTAAGATTACTTAGTTTCTCCTTATTAGGAACTCTTTTTCTCTGTGGAGTTAGCAGCACA
US2005/0170353 USP6956103	SEQ ID NO: 21 AGGGCAATCCCGTTTCTTTTAACAGGAAGAAACATTCCTAAGAGTAAAGCCAAACAGAT AGGGCAATCCCGTTTCTTTTAACAGGAAGAAAACATTCCTAAGAGTAAAGCCAAACAGAT ***********************************
US2005/0170353 USP6956103	SEQ_ID_NO: 21 TCAAGCCTAGGTCTTGCTGACTATATGATTGGTTTTTTGAAAAATCATTTCAGCGATGTT TCAAGCCTAGGTCTTGCTGACTATATGATTGGTTTTTTTGAAAAATCATTTCAGCGATGTT *********************************
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US2005/0170353 USP6956103	TTGTAAATGTCTCAAGTTCAGGCTTAACTGCAGAACCAATCAAATAAGAATAGAATCTTT TTGTAAATGTCTCAAGTTCAGGCTTAACTGCAGAACCAATCAAATAAGAATAGAATCTTT ********************************
US2005/0170353 USP6956103	AGAGCAAACTGTGTTTCTCCACTCTGGAGGTGAGTCTGCCAGGGCAGTTTGGAAATATTT AGAGCAAACTGTGTTTCTCCACTCTGGAGGTGAGTCTGCCAGGGCAGTTTGGAAATATTT ************************
	2830
US2005/0170353 USP6956103	SEQ ID NO: 11  ACTTCACAAGTATTGACACTGTTGTTGGTATTAACAACATAAAGTTGCTCAAAGGCAATC  ACTTCACAAGTATTGACACTGTTGTTGGTATTAACAACATAAAGTTGCTCAAAGGCAATC  *********************************
US2005/0170353 USP6956103	SEQ ID NO:20 ATTATTTCAAGTGGCTTAAAGTTACTTCTGACAGTTTTGGTATATTTATT
US2005/0170353 USP6956103	SEQ ID NO: 20 ATTTGCTTTTTGTTTTTCTCTTTGGGTTTATTAATGTAAAGCAGGGATTATTAACCTAC ATTTGCTTTTTGTTTTTTCTCTTTTGGGTTTATTAATGTAAAGCAGGGATTATTAACCTAC
US2005/0170353 USP6956103	AGTCCAGAAAGCCTGTGAATTTGAATGAGGAAAAAATTACATTTTTGTTTTTACCACCTT AGTCCAGAAAGCCTGTGAATTTGAATGAGGAAAAAATTACATTTTTGTTTTTACCACCTT **************************
US2005/0170353 USP6956103	CTAACTAAATTTAACATTTTATTCCATTGCGAATAGAGCCATAAACTCAAAGTGGTAATA CTAACTAAATTTAACATTTTATTCCATTGCGAATAGAGCCATAAACTCAAAGTGGTAATA ***************************
US2005/0170353 USP6956103	ACAGTACCTGTGATTTTGTCATTACCAATAGAAATCACAGACATTTTATACTATATTACA ACAGTACCTGTGATTTTGTCATTACCAATAGAAATCACAGACATTTTATACTATATTACA *******************

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SEQ US2005/0170353 USP6956103	ID NO: 12 TCCTGCTGGATCTTGTTTTTAACATATTAATAAAACATGTTTAAAATTTTGATATTTTGA TCCTGCTGGATCTTGTTTTTAACATATTAATAAAACATGTTTAAAAATTTTGATATTTTGA **************	
US2005/0170353 USP6956103	SEQ ID NO: 19 TAATCATATTTCATTATCATTTGTTTCCTTTGTAATCTATATTTTATATATTTTGAAAACA TAATCATATTTCATTATCATTTGTTTCCTTTGTAATCTATATTTTATATATTTTGAAAACA ********************************	
	3371	
	ID NO: 19 A	
US2005/0170353 USP6956103	TCTTTCTGAGAAGAGTTCCCCAGATTTCACCAATGAGGTTCTTGGCATGCACACACA	
US2005/0170353 USP6956103	AGTAAGAACTGATTTAGAGGCTAACATTGACATTGGTGCCTGAGATGCAAGACTGAAATT AGTAAGAACTGATTTAGAGGCTAACATTGACATTGGTGCCTGAGATGCAAGACTGAAATT ********************************	
US2005/0170353 USP6956103	AGAAAGTTCTCCCAAAGATACACAGTTGTTTTAAAGCTAGGGGTGAGGGGGGAAATCTGC AGAAAGTTCTCCCAAAGATACACAGTTGTTTTAAAGCTAGGGGTGAGGGGGGAAATCTGC **********************************	
US2005/0170353 USP6956103	CGCTTCTATAGGAATGCTCTCCCTGGAGCCTGGTAGGGTGCTGTCCTTGTGTTCTGGCTG CGCTTCTATAGGAATGCTCTCCCTGGAGCCTGGTAGGGTGCTGTCCTTGTGTTCTGGCTG	
US2005/0170353 USP6956103	SEQ ID NO: 13 GCTGTTATTTTTCTCTGTCCCTGCTACGTCTTAAAGGACTTGTTTGGATCTCCAGTTCCT GCTGTTATTTTTCTCTGTCCCTGCTACGTCTTAAAGGACTTGTTTGGATCTCCAGTTCCT *********************************	
	SEO ID NO: 18	
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US2005/0170353 USP6956103	ACTAGAAATATATCCTTGTTGAAATCAGCACACCAGTAGTCCTGGTGTAAGTGTGTGT	
US2005/0170353 USP6956103	GTGTGTGTGTGTGTGTGTGTGTAAAACCAGGTGGAGATATAGGAACTATTATTG GTGTGTGTGTGTGTGTGTGTGTGTAAAACCAGGTGGAGATATAGGAACTATTATTG *******************************	
US2005/0170353 USP6956103	GGGTATGGGTGCATAAATTGGGATGTTCTTTTTAAAAAGAAACTCCAAACAGACTTCTGG GGGTATGGGTGCATAAATTGGGATGTTCTTTTTAAAAAAGAAACTCCAAACAGACTTCTGG ********************************	
	SEQ ID NO: 14	
US2005/0170353 USP6956103	AAGGTTATTTCTAAGAATCTTGCTGGCAGCGTGAAGGCAACCCCCTGTGCACAGCCCC AAGGTTATTTCTAAGAATCTTGCTGGCAGCGTGAAGGCAACCCCCCTGTGCACAGCCCC	
	SEQ ID NO: 17	
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4037

SEO	403/
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	C C
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	(Beginning of Exon 1)
	D(1960-1962)
US2005/0170353 USP6956103	GTTGCTGCAGCTTTGGGCCTGAGATGCCAGCTGTCCAGCTGCTGCTTCTGGCCTGCCT
US2005/0170353 USP6956103	TGTGGGATGTGGGGCCAGGACAGCTCAGCTCAGGAAGGCCAATGACCAGAGTGGCCGAT TGTGGGATGTGGGGCCAGGACAGCTCAGCT
US2005/0170353 USP6956103	GCCAGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGCTGCCCAGAGCAGAGCCAGG GCCAGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGCTGCCCAGAGCAGAGCCAGG *********************
	4346
	SEQ ID NO: 16 A D(2149-2151)
US2005/0170353	CCATGTCAGTCATCCATAACTTACAGAGAGACAGCAGCACCCAACGCTTAGACCTGGAGG
USP6956103	CCATGTCAGTCATCCATAACTTACAGAGAGACAGCACCCAACGCTTAGACCTGGAGG *********************************
US2005/0170353 USP6956103	CCACCAAAGCTCGACTCAGCTCCCTGGAGAGCCTCCTCCACCAATTGACCTTGGACCAGG CCACCAAAGCTCGACTCAGCTCCCTGGAGAGCCTCCTCCACCAATTGACCTTGGACCAGG *******************************
US2005/0170353 USP6956103	CTGCCAGGCCCCAGGAGACCCAGGAGGGGGCTGCAGAGGGAGCTGGGCACCCTGAGGCGGG CTGCCAGGCCCCAGGAGACCCAGGAGGGGCTGCAGAGGGAGCTGGGCACCCTGAGGCGGG
US2005/0170353 USP6956103	AGCGGGACCAGCTGGAAACCCAAACCAGAGAGTTGGAGACTGCCTACAGCAACCTCCTCC AGCGGGACCAGCTGGAAACCCAAACCAGAGAGTTGGAGACTGCCTACAGCAACCTCCTCC
US2005/0170353 USP6956103	GAGACAAGTCAGTTCTGGAGGAAGAGAAGAAGCGACTAAGGCAAGAAAATGAGAATCTGG GAGACAAGTCAGTTCTGGAGGAAGAAGAAGCGACTAAGGCAAGAAAATGAGAATCTGG **********************************
US2005/0170353 USP6956103	CCAGGAGGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTGAGAAGGGGCCAGTGTCCCC CCAGGAGGTTGGAAAGCAGCCAGGCGAGGTAGCAAGGCTGAGAAGGGGCCAGTGTCCCC
	SEQ ID NO: 15
US2005/0170353 USP6956103	AGACCCGAGACACTGCTCGGGCTGTGCCACCAGGCTCCAGAGAAGGTAAGAATGCAGAGT AGACCCGAGACACTGCTCGGGCTGTGCCACCAGGCTCCAGAGAAGGTAAGAATGCAGAGT
	(End of Exon 1)
US2005/0170353 USP6956103	GGGGGGACTCTGAGTTCAGCAGGTGATATGGCTCGTAGTGACCTGCTACAGGCGCTCCAG GGGGGGACTCTGAGTTCAGCAGGTGATATGGCTCGTAGTGACCTGCTACAGGCGCTCCAG

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US2005/0170353 USP6956103	B GGAGAAATAAAAGGACCGGGTGAGATGTGTCTGCA∏ATGAGCAGTAGAAAGTTGTCAATT GGAGAAATAAAAGGACCGGGTGAGATGTGTCTGCA∏
US2005/0170353 USP6956103	GTCCCTTTTGAAAAACTATCCTTTTTTGAACCTTTGCTCAGATTGTTATTTTGTACCTTTT
US2005/0170353 USP6956103	GATGTTAAAATGACCTTTATTTATGAAATTACAATAGATTTGGGAAATGATAATAAGTGG
US2005/0170353 USP6956103	TAAGTTTTTGTTTATTTTTAAATGTTCTTCCCTGGCAAAATAAAGAGATGGCACCTCTCT
US2005/0170353 USP6956103	GTCAGTTTTCTTAATATGTTGTTCTGAAAGTTTTCTTACTCAGTCCAATCTGAGAACCTC
US2005/0170353 USP6956103	TGCTTTTAAGTCATCAGACAAATTCTTGAGATGGCTTTTTCTGAGAGGCTCTTCTGTTCA
US2005/0170353 USP6956103	TCCTGGTCCCTTCTTGCCTAAAGGTGAGTCTGTGTGTGTG
US2005/0170353 USP6956103	GGTGTTGGGGGAGGTCTTCTTATTAGCTGGGAAGATGGTATTTGTGTCACTTTTTGTGAA
US2005/0170353 USP6956103	AGTGGGCTCCCAAATATTCCCTGTTGAGGAAGTGTTCTAATCATGAGGAAATAAGCAAGC
US2005/0170353 USP6956103	AAATCCAGTTGTTGGACAATTAGTTTGGACTGGTCAAAGATGTCAGTGCCAAGGAAGAAA
US2005/0170353 USP6956103	GAAAAAAGGGGTGGGGAAGGGCTTGTTCTATATTAAAGAGACTAAAGAAATGTGTTAACC
US2005/0170353 USP6956103	AAATGTAGTGCATGAGTCTTGATTGGTGTCTTCATCCAAGGGGGAAAAAGGCTATGAGGA

US2005/0170353 USP6956103	ACAGGTTTGGGATAACTGAGGCAATTTGACTGCTCATTATTATGTTACTGTATTAATGTT
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US2005/0170353 USP6956103	GATACATGCTTAAGTACCCAGGGTGAGGCGTCAGGATGTCTGCAATTTGCTCTCAAATGG
US2005/0170353 USP6956103	TTGAAGAAAGACTGCAAATATATAGATAATGAGAGAAAGAA
US2005/0170353 USP6956103	SEQ ID NO: 3  AAATATTAATAACTGGTGAATTACAAACTGGTGAATCTAAGTATATGGGGAGCTTATTGT
US2005/0170353 USP6956103	AC 